

# Ivelina G Momcheva

## List of Publications by Year in descending order

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66  
papers

6,835  
citations

71102

41  
h-index

106344

65  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3464  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-HST WFC3-SELECTED PHOTOMETRIC CATALOGS IN THE FIVE CANDELS/3D-HST FIELDS: PHOTOMETRY, PHOTOMETRIC REDSHIFTS, AND STELLAR MASSES. <i>Astrophysical Journal, Supplement Series</i> , 2014, 214, 24.	7.7	728
2	CONSTRAINING THE LOW-MASS SLOPE OF THE STAR FORMATION SEQUENCE AT $0.5 < z < 2.5$ . <i>Astrophysical Journal</i> , 2014, 795, 104.	4.5	646
3	3D-HST: A WIDE-FIELD GRISM SPECTROSCOPIC SURVEY WITH THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal, Supplement Series</i> , 2012, 200, 13.	7.7	536
4	THE 3D-HST SURVEY: HUBBLE SPACE TELESCOPE WFC3/G141 GRISM SPECTRA, REDSHIFTS, AND EMISSION LINE MEASUREMENTS FOR $\sim 100,000$ GALAXIES. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 27.	7.7	513
5	THE MOSFIRE DEEP EVOLUTION FIELD (MOSDEF) SURVEY: REST-FRAME OPTICAL SPECTROSCOPY FOR $\sim 1500$ $< H < 1 < 3.8$ . <i>Astrophysical Journal, Supplement Series</i> , 2015, 218, 15.	7.7	312
6	BULGE GROWTH AND QUENCHING SINCE $z = 2.5$ IN CANDELS/3D-HST. <i>Astrophysical Journal</i> , 2014, 788, 11.	4.5	244
7	FORMING COMPACT MASSIVE GALAXIES. <i>Astrophysical Journal</i> , 2015, 813, 23.	4.5	240
8	A CANDELS-3D-HST SYNERGY: RESOLVED STAR FORMATION PATTERNS AT $0.7 < z < 1.5$ . <i>Astrophysical Journal</i> , 2013, 779, 135.	4.5	202
9	THE ASSEMBLY OF MILKY-WAY-LIKE GALAXIES SINCE $z \sim 2.5$ . <i>Astrophysical Journal Letters</i> , 2013, 771, L35.	8.3	202
10	REVERSAL OF FORTUNE: CONFIRMATION OF AN INCREASING STAR FORMATION DENSITY RELATION IN A CLUSTER AT $z = 1.62$ . <i>Astrophysical Journal Letters</i> , 2010, 719, L126-L129.	8.3	187
11	WHERE STARS FORM: INSIDE-OUT GROWTH AND COHERENT STAR FORMATION FROM HST $H\pm$ MAPS OF 3200 GALAXIES ACROSS THE MAIN SEQUENCE AT $0.7 < z < 1.5$ . <i>Astrophysical Journal</i> , 2016, 828, 27.	4.5	166
12	An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey. <i>Astrophysical Journal</i> , 2019, 877, 140.	4.5	156
13	DIRECT MEASUREMENTS OF DUST ATTENUATION IN $z \sim 1.5$ STAR-FORMING GALAXIES FROM 3D-HST: IMPLICATIONS FOR DUST GEOMETRY AND STAR FORMATION RATES. <i>Astrophysical Journal</i> , 2014, 788, 86.	4.5	150
14	COSMOS-DASH: The Evolution of the Galaxy Size-Mass Relation since $z \sim 3$ from New Wide-field WFC3 Imaging Combined with CANDELS/3D-HST. <i>Astrophysical Journal</i> , 2019, 880, 57.	4.5	118
15	QUIESCENT GALAXIES IN THE 3D-HST SURVEY: SPECTROSCOPIC CONFIRMATION OF A LARGE NUMBER OF GALAXIES WITH RELATIVELY OLD STELLAR POPULATIONS AT $z \sim 2$ . <i>Astrophysical Journal Letters</i> , 2013, 770, L39.	8.3	117
16	DENSE CORES IN GALAXIES OUT TO $z = 2.5$ IN SDSS, UltraVISTA, AND THE FIVE 3D-HST/CANDELS FIELDS. <i>Astrophysical Journal</i> , 2014, 791, 45.	4.5	111
17	THE EVOLUTION OF METALLICITY AND METALLICITY GRADIENTS FROM $z = 2.7$ TO $0.6$ WITH KMOS <sup>3D</sup> . <i>Astrophysical Journal</i> , 2016, 827, 74.	4.5	109
18	GALAXY STRUCTURE AS A DRIVER OF THE STAR FORMATION SEQUENCE SLOPE AND SCATTER. <i>Astrophysical Journal Letters</i> , 2015, 811, L12.	8.3	98

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19	THE NATURE OF EXTREME EMISSION LINE GALAXIES AT $z = 1-2$ : KINEMATICS AND METALLICITIES FROM NEAR-INFRARED SPECTROSCOPY. <i>Astrophysical Journal</i> , 2014, 791, 17.	4.5	97
20	A CONSISTENT STUDY OF METALLICITY EVOLUTION AT $0.8 < z < 2.6$ . <i>Astrophysical Journal Letters</i> , 2014, 789, L40.	8.3	96
21	A Spectroscopic Study of the Environments of Gravitational Lens Galaxies. <i>Astrophysical Journal</i> , 2006, 641, 169-189.	4.5	95
22	Predicting Quiescence: The Dependence of Specific Star Formation Rate on Galaxy Size and Central Density at $0.5 < z < 2.5$ . <i>Astrophysical Journal</i> , 2017, 838, 19.	4.5	87
23	SPATIALLY RESOLVED DUST MAPS FROM BALMER DECREMENTS IN GALAXIES AT $z \sim 1.4$ . <i>Astrophysical Journal Letters</i> , 2016, 817, L9.	8.3	84
24	KMOS3D: DYNAMICAL CONSTRAINTS ON THE MASS BUDGET IN EARLY STAR-FORMING DISKS*. <i>Astrophysical Journal</i> , 2016, 831, 149.	4.5	83
25	HOW DEAD ARE DEAD GALAXIES? MID-INFRARED FLUXES OF QUIESCENT GALAXIES AT REDSHIFT $0.3 < z < 2.5$ : IMPLICATIONS FOR STAR FORMATION RATES AND DUST HEATING. <i>Astrophysical Journal</i> , 2014, 796, 35.	4.5	75
26	OBSERVATIONS OF ENVIRONMENTAL QUENCHING IN GROUPS IN THE 11 Gyr SINCE $z = 2.5$ : DIFFERENT QUENCHING FOR CENTRAL AND SATELLITE GALAXIES. <i>Astrophysical Journal</i> , 2014, 789, 164.	4.5	74
27	3D-HST GRISM SPECTROSCOPY OF A GRAVITATIONALLY LENSED, LOW-METALLICITY STARBURST GALAXY AT $z = 1.847$ . <i>Astrophysical Journal Letters</i> , 2012, 758, L17.	8.3	73
28	A massive galaxy in its core formation phase three billion years after the Big Bang. <i>Nature</i> , 2014, 513, 394-397.	27.8	71
29	THE EFFECT OF ENVIRONMENT ON SHEAR IN STRONG GRAVITATIONAL LENSES. <i>Astrophysical Journal</i> , 2011, 726, 84.	4.5	65
30	Falling Outer Rotation Curves of Star-forming Galaxies at $0.6 < z < 2.6$ Probed with KMOS <sup>3D</sup> and SINS/zC-SINF. <i>Astrophysical Journal</i> , 2017, 840, 92.	4.5	64
31	CAUGHT IN THE ACT: THE ASSEMBLY OF MASSIVE CLUSTER GALAXIES AT $z = 1.62$ . <i>Astrophysical Journal</i> , 2013, 773, 154.	4.5	58
32	Deep CO(1-0) Observations of $z = 1.62$ Cluster Galaxies with Substantial Molecular Gas Reservoirs and Normal Star Formation Efficiencies. <i>Astrophysical Journal</i> , 2017, 849, 27.	4.5	58
33	CLEAR. I. Ages and Metallicities of Quiescent Galaxies at $1.0 < z < 1.8$ Derived from Deep Hubble Space Telescope Grism Data. <i>Astrophysical Journal</i> , 2019, 870, 133.	4.5	57
34	ZFIRE: GALAXY CLUSTER KINEMATICS, $H\alpha$ STAR FORMATION RATES, AND GAS PHASE METALLICITIES OF XMM-LSS J02182-05102 AT $z_{\mathrm{cl}} = 1.6233$ . <i>Astrophysical Journal</i> , 2015, 811, 28.	4.5	54
35	The Regulation of Galaxy Growth along the Size-Mass Relation by Star Formation, as Traced by $H\alpha$ in KMOS <sup>3D</sup> Galaxies at $0.7 < z < 2.7$ . <i>Astrophysical Journal</i> , 2020, 892, 1.	4.5	54
36	A TALE OF DWARFS AND GIANTS: USING A $z = 1.62$ CLUSTER TO UNDERSTAND HOW THE RED SEQUENCE GREW OVER THE LAST 9.5 BILLION YEARS. <i>Astrophysical Journal</i> , 2012, 755, 14.	4.5	53

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37	First Results from a Photometric Survey of Strong Gravitational Lens Environments. <i>Astrophysical Journal</i> , 2006, 646, 85-106.	4.5	52
38	THE EVOLUTION OF THE FRACTIONS OF QUIESCENT AND STAR-FORMING GALAXIES AS A FUNCTION OF STELLAR MASS SINCE $z \approx 3$ : INCREASING IMPORTANCE OF MASSIVE, DUSTY STAR-FORMING GALAXIES IN THE EARLY UNIVERSE. <i>Astrophysical Journal Letters</i> , 2016, 827, L25.	8.3	49
39	THE STRUCTURAL EVOLUTION OF MILKY-WAY-LIKE STAR-FORMING GALAXIES SINCE $z \approx 1.3$ . <i>Astrophysical Journal</i> , 2013, 778, 115.	4.5	45
40	CLEAR. II. Evidence for Early Formation of the Most Compact Quiescent Galaxies at High Redshift. <i>Astrophysical Journal</i> , 2020, 898, 171.	4.5	45
41	KMOS <sup>3D</sup> Reveals Low-level Star Formation Activity in Massive Quiescent Galaxies at $0.7 \leq z \leq 2.7$ . <i>Astrophysical Journal Letters</i> , 2017, 841, L6.	8.3	44
42	CONFIRMATION OF SMALL DYNAMICAL AND STELLAR MASSES FOR EXTREME EMISSION LINE GALAXIES AT $z \approx 2$ . <i>Astrophysical Journal Letters</i> , 2013, 778, L22.	8.3	41
43	AGES OF MASSIVE GALAXIES AT $0.5 \leq z \leq 2.0$ FROM 3D-HST REST-FRAME OPTICAL SPECTROSCOPY. <i>Astrophysical Journal</i> , 2016, 822, 1.	4.5	37
44	FIRST RESULTS FROM THE VIRIAL SURVEY: THE STELLAR CONTENT OF $UVJ$ -SELECTED QUIESCENT GALAXIES AT $1.5 \leq z \leq 2$ FROM KMOS. <i>Astrophysical Journal Letters</i> , 2015, 804, L4.	8.3	35
45	CLEAR: The Gas-phase Metallicity Gradients of Star-forming Galaxies at $0.6 \leq z \leq 2.6$ . <i>Astrophysical Journal</i> , 2021, 923, 203.	4.5	30
46	The Ages of Passive Galaxies in a $z = 1.62$ Protocluster. <i>Astrophysical Journal</i> , 2017, 844, 43.	4.5	26
47	LEVERAGING 3D-HST GRISM REDSHIFTS TO QUANTIFY PHOTOMETRIC REDSHIFT PERFORMANCE. <i>Astrophysical Journal</i> , 2016, 822, 30.	4.5	26
48	A SPECTROSCOPIC SURVEY OF THE FIELDS OF 28 STRONG GRAVITATIONAL LENSES. <i>Astrophysical Journal</i> , Supplement Series, 2015, 219, 29.	7.7	24
49	The Number Density Evolution of Extreme Emission Line Galaxies in 3D-HST: Results from a Novel Automated Line Search Technique for Slitless Spectroscopy*. <i>Astrophysical Journal</i> , 2018, 854, 29.	4.5	24
50	A New Method for Wide-field Near-IR Imaging with the Hubble Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 015004.	3.1	22
51	Galaxy Merger Fractions in Two Clusters at $z \approx 2$ Using the Hubble Space Telescope. <i>Astrophysical Journal</i> , 2019, 874, 63.	4.5	22
52	A SPECTROSCOPIC SURVEY OF THE FIELDS OF 28 STRONG GRAVITATIONAL LENSES: THE GROUP CATALOG. <i>Astrophysical Journal</i> , 2016, 833, 194.	4.5	20
53	CLEAR: Emission-line Ratios at Cosmic High Noon. <i>Astrophysical Journal</i> , 2022, 926, 161.	4.5	20
54	The Kinematics of Massive Quiescent Galaxies at $1.4 \leq z \leq 2.1$ : Dark Matter Fractions, IMF Variation, and the Relation to Local Early-type Galaxies*. <i>Astrophysical Journal</i> , 2020, 899, 87.	4.5	19

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55	The spatial extent and distribution of star formation in 3D-HST mergers at $z \approx 1.5$ . Monthly Notices of the Royal Astronomical Society, 2013, 432, 285-300.	4.4	16
56	DISCOVERY OF A STRONG LENSING GALAXY EMBEDDED IN A CLUSTER AT $z = 1.62$ . Astrophysical Journal Letters, 2014, 789, L31.	8.3	16
57	THE RELATION BETWEEN $[O III] / H \beta^2$ AND SPECIFIC STAR FORMATION RATE IN GALAXIES AT $z \approx 2$ . Astrophysical Journal Letters, 2016, 828, L11.	8.3	16
58	A Comparison of Rest-frame Ultraviolet and Optical Emission-line Diagnostics in the Lensed Galaxy SDSSJ1723+3411 at Redshift $z = 1.3293$ . Astrophysical Journal, 2021, 908, 154.	4.5	12
59	Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey. Astrophysical Journal, 2022, 925, 34.	4.5	12
60	CLEAR: Paschen- $\beta^2$ Star Formation Rates and Dust Attenuation of Low-redshift Galaxies. Astrophysical Journal, 2022, 929, 3.	4.5	12
61	CLEAR: Boosted Ly $\alpha$ Transmission of the Intergalactic Medium in UV-bright Galaxies. Astrophysical Journal, 2022, 933, 87.	4.5	12
62	A Spectroscopic Survey of the Fields of 28 Strong Gravitational Lenses: Implications for $H_{\alpha}$ . Astrophysical Journal, 2017, 850, 94.	4.5	10
63	Spatial Variation in Strong Line Ratios and Physical Conditions in Two Strongly Lensed Galaxies at $z \approx 1.4$ . Astrophysical Journal, 2021, 916, 50.	4.5	8
64	3D-DASH: The Widest Near-infrared Hubble Space Telescope Survey. Astrophysical Journal, 2022, 933, 129.	4.5	6
65	Spatially Extended Low-ionization Emission Regions (LIERs) at $z \approx 0.9$ . Astrophysical Journal, 2018, 868, 16.	4.5	1
66	H $\beta$ Equivalent Widths from the 3D-HST survey: evolution with redshift and dependence on stellar mass. Proceedings of the International Astronomical Union, 2012, 8, 91-91.	0.0	0